

Figure 1

HIF-1 Regulation by Hypoxia

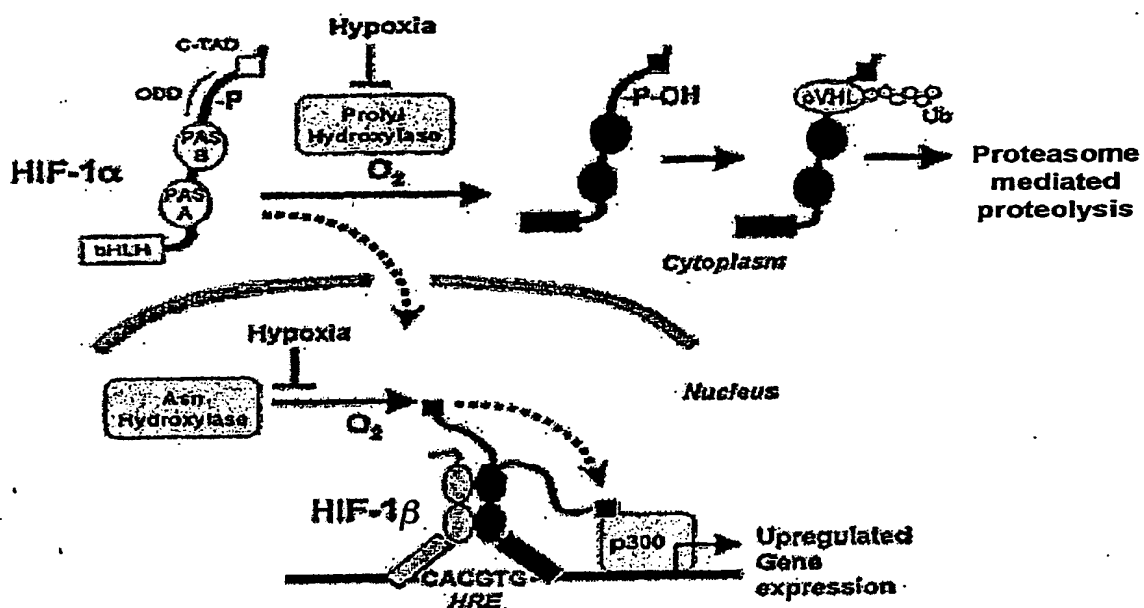


Figure 2

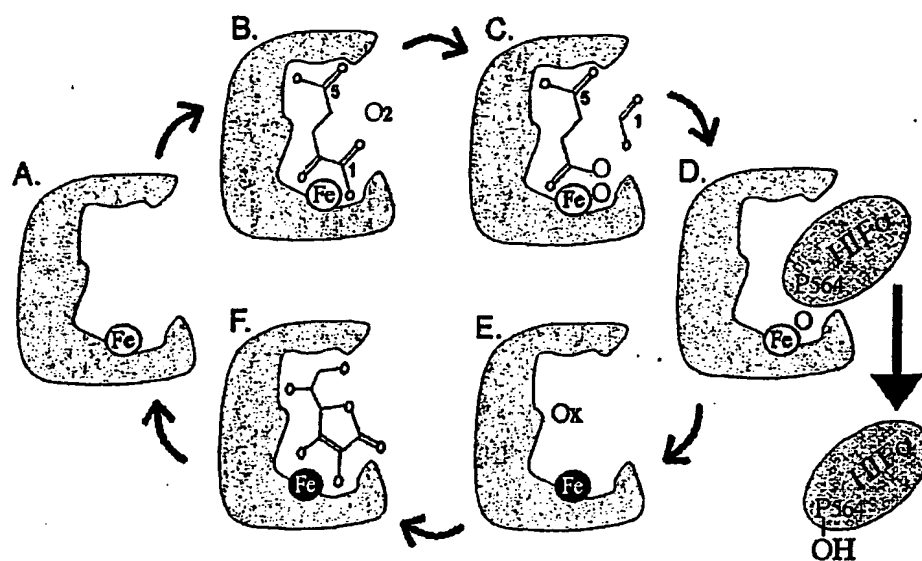
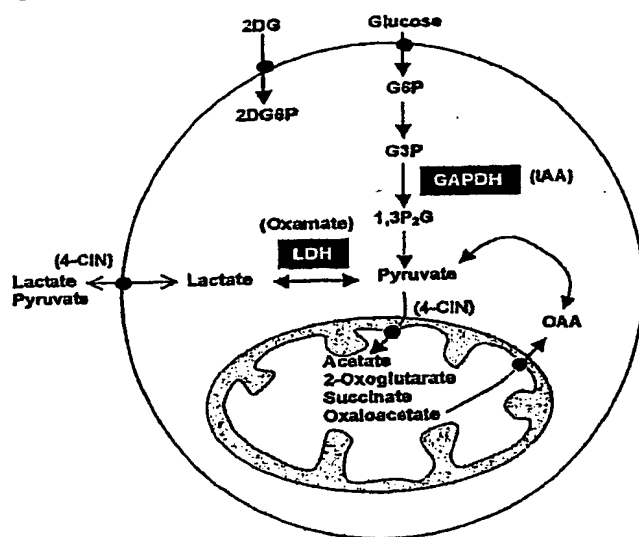


Figure 3

A. Abbreviated diagram of oxygen-independent glucose metabolism and relevant inhibitors.



B. Structural comparisons of key glucose metabolites.

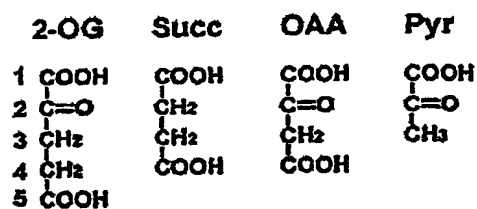


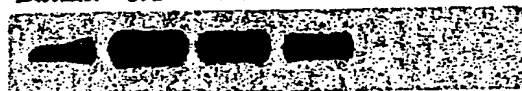
Figure 4

A. Time after changing medium with krebs (h)

DMEM 0.5 1 2 4 8 16

**B. [Glucose] in Krebs (mM)**

DMEM 5.5 1.4 0.46 0 2-DG

**C. 0mM Glc**21%O₂ 1%O₂ DFO**D. 5.5mM Glc**

IAA 4-CIN

**E. 0mM Glc**

Lac Pyr Cit 2-OG Succ Ala



Figure 5

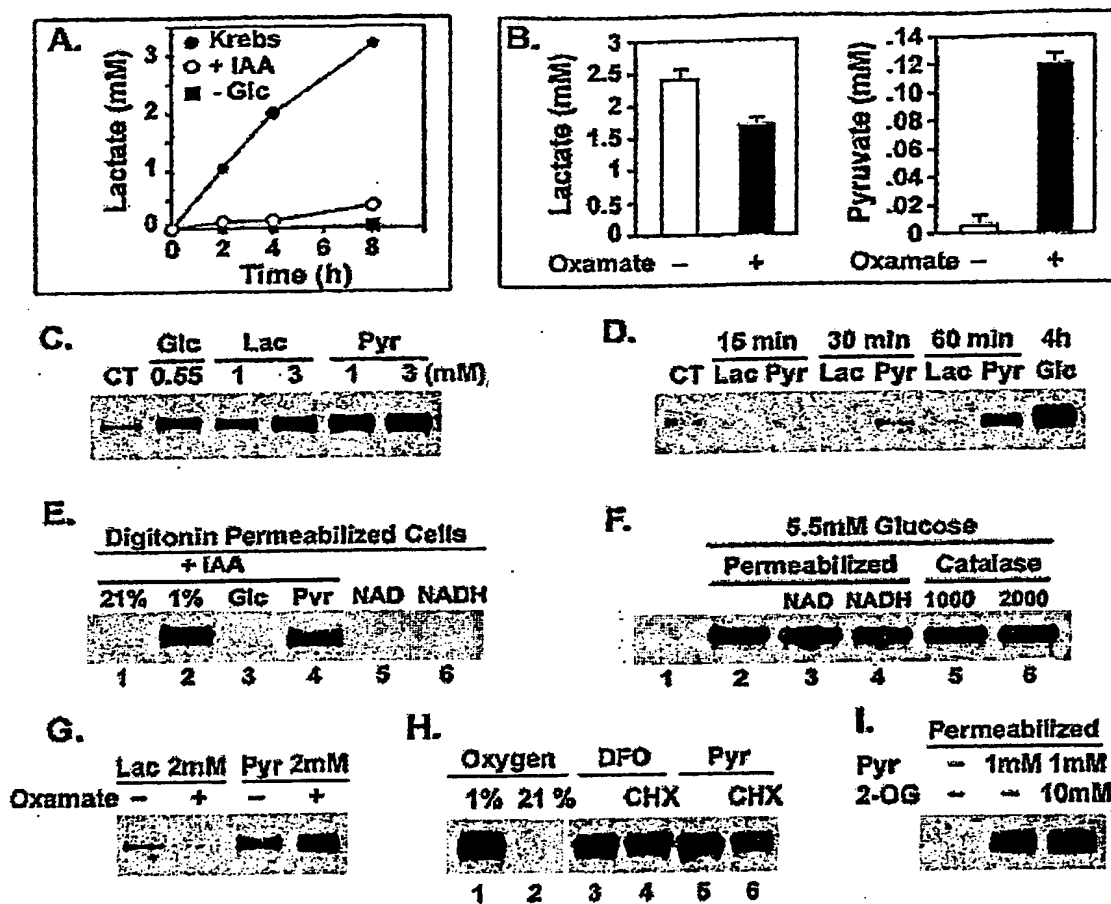


Figure 6

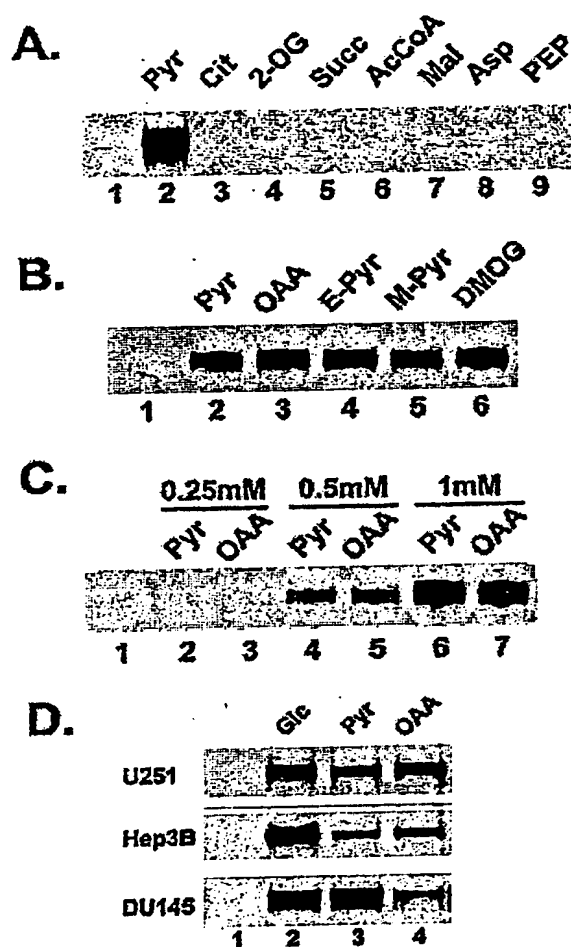


Figure 7

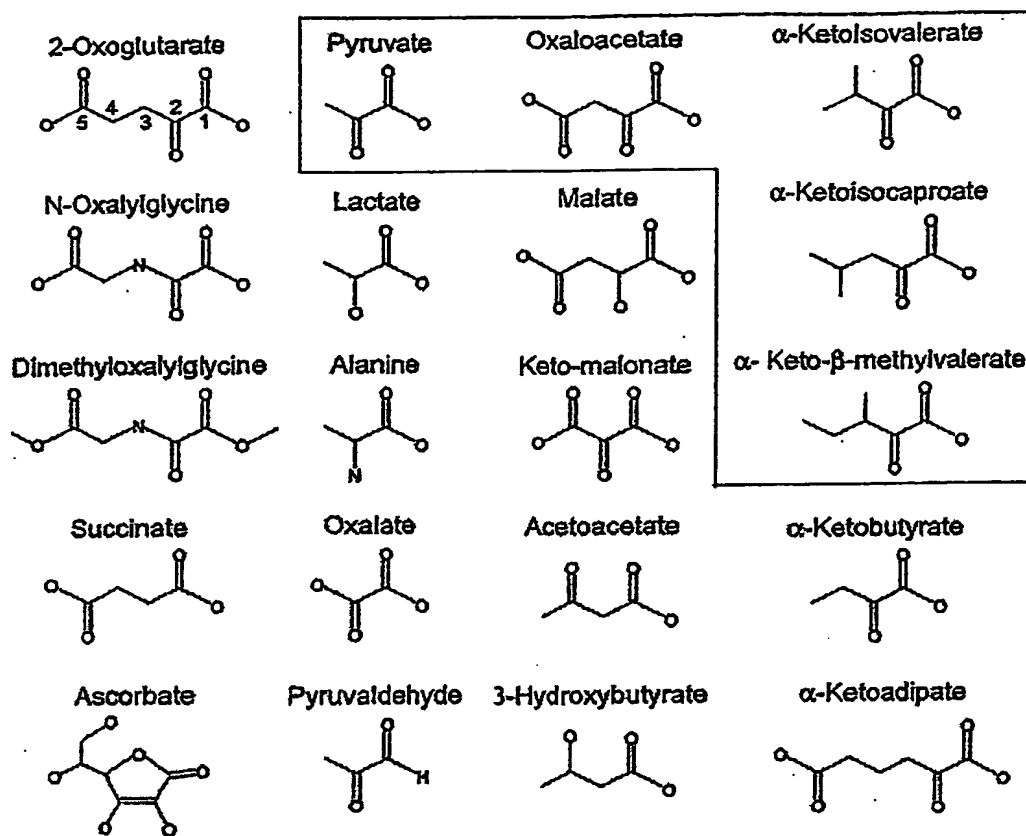
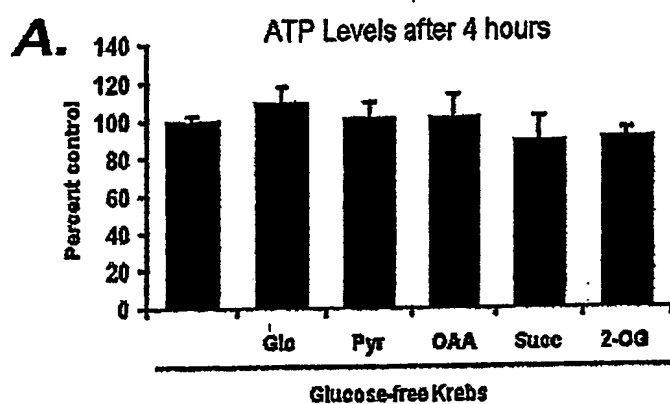


Figure 8



B. *Digitonin permeabilized cells*

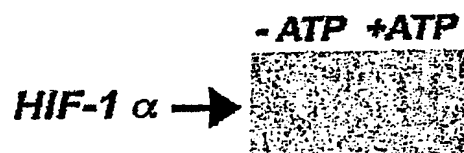


Figure 9

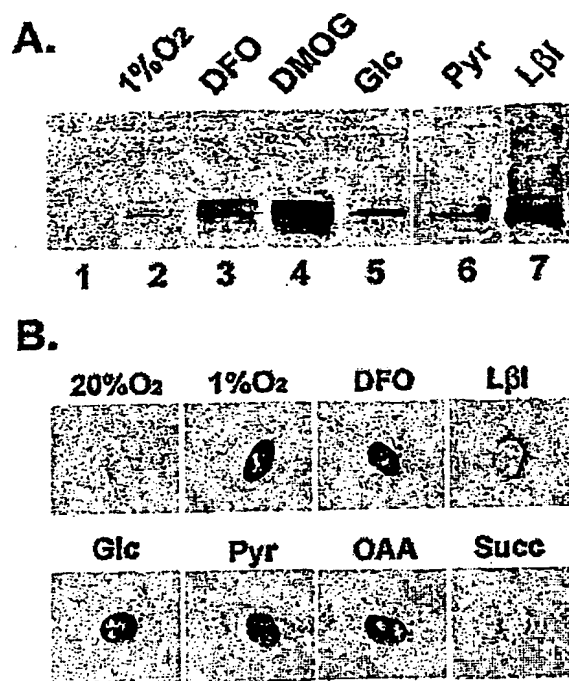


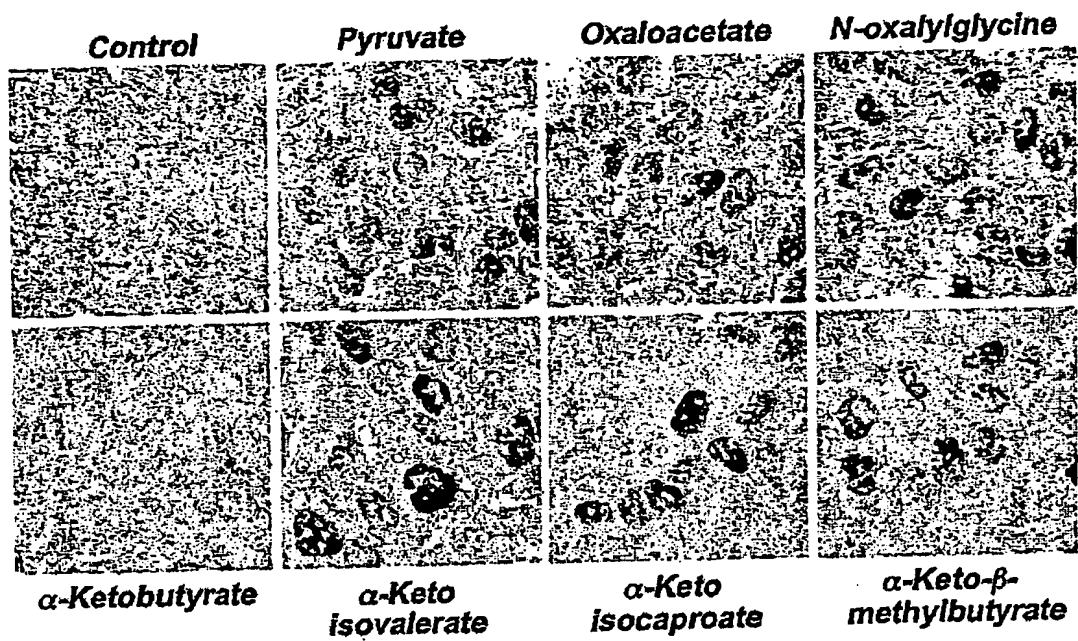
Figure 10

Figure 11

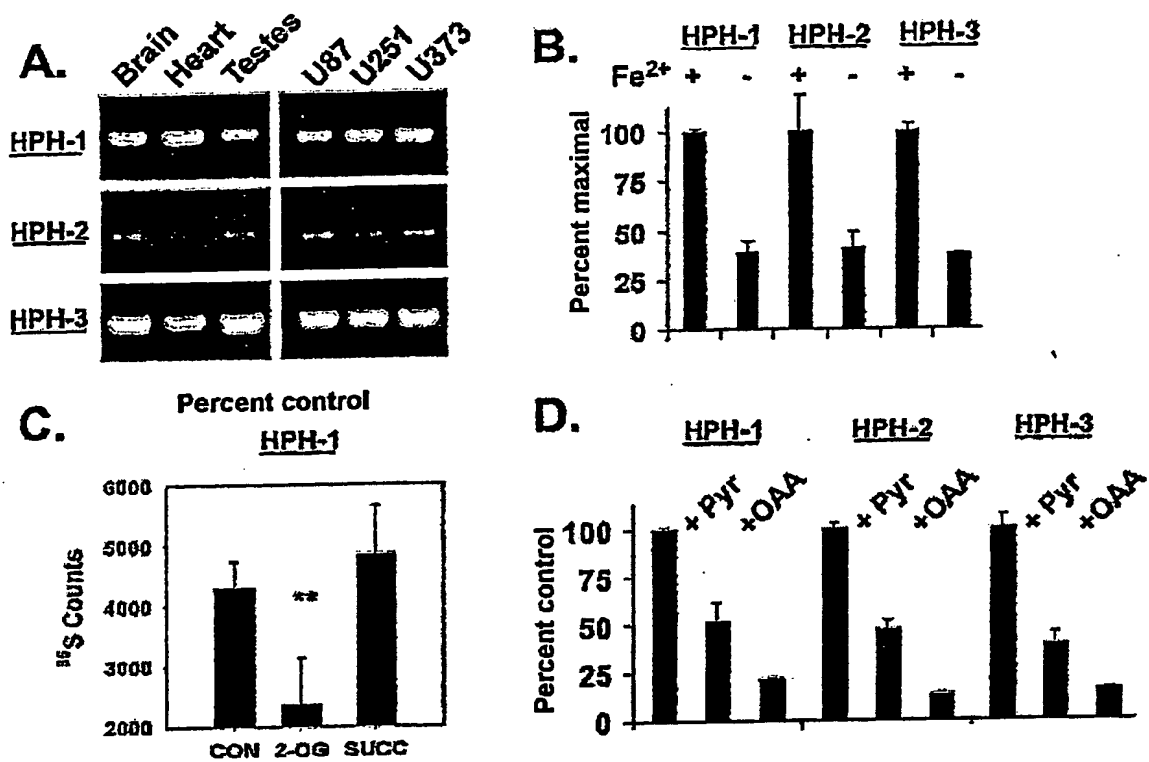


Figure 12

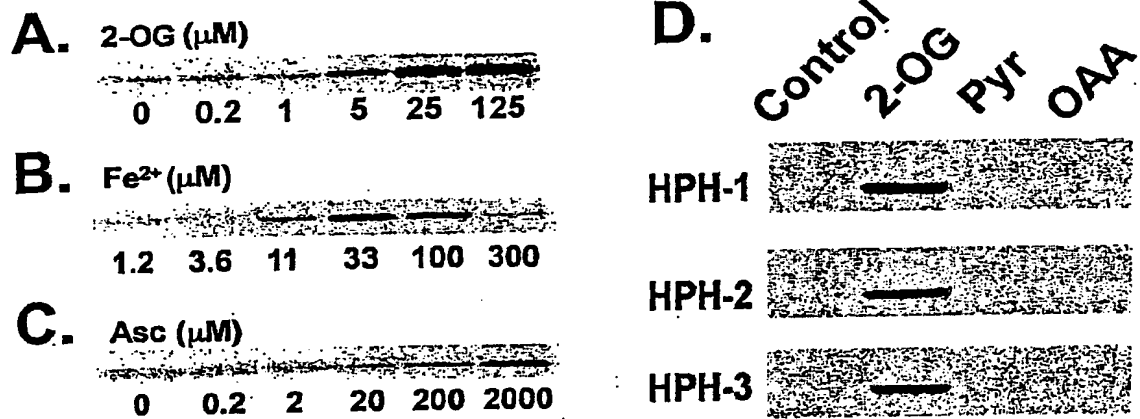


Figure 13

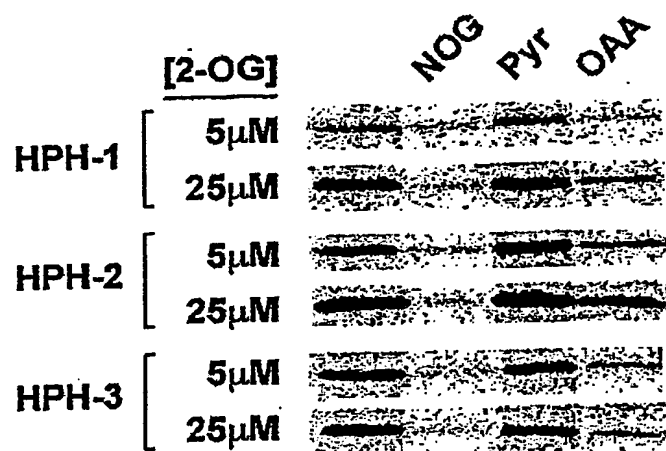


Figure 14

HPH-1					+ 1 mM OAA				+ 1 mM PYR			
Ascorbate	4	20	100	500	4	20	100	500	4	20	100	500

HPH-2					+ 1 mM OAA				+ 1 mM PYR			
Ascorbate	4	20	100	500	4	20	100	500	4	20	100	500

HPH-3					+ 1 mM OAA				+ 1 mM PYR			
Ascorbate	8	40	200	1000	8	40	200	1000	8	40	200	1000

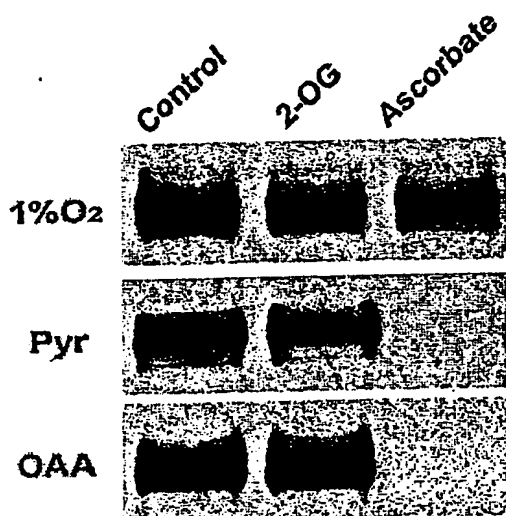
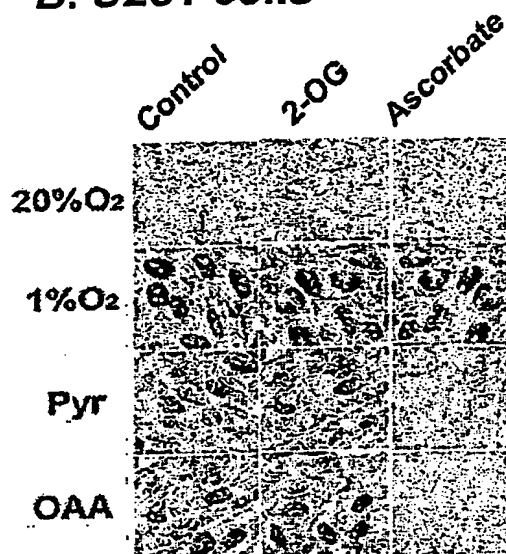
Figure 15**A. U87 cells****B. U251 cells**

Figure 16

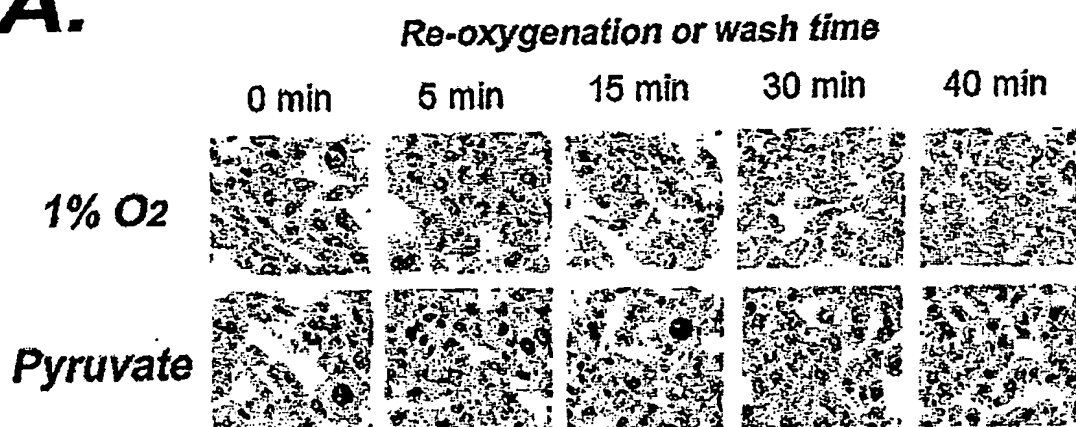
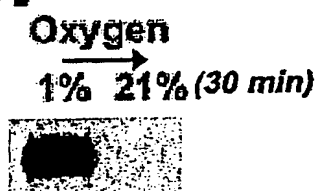
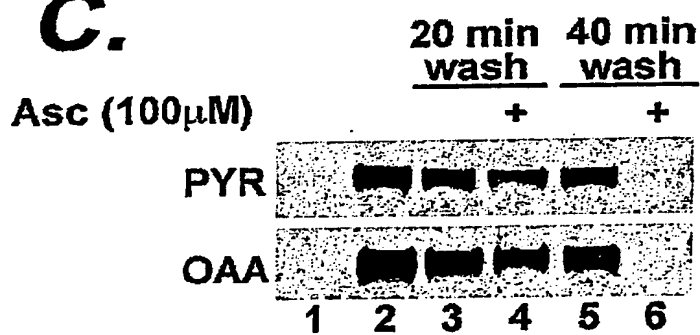
A.**B.****C.**

Figure 17

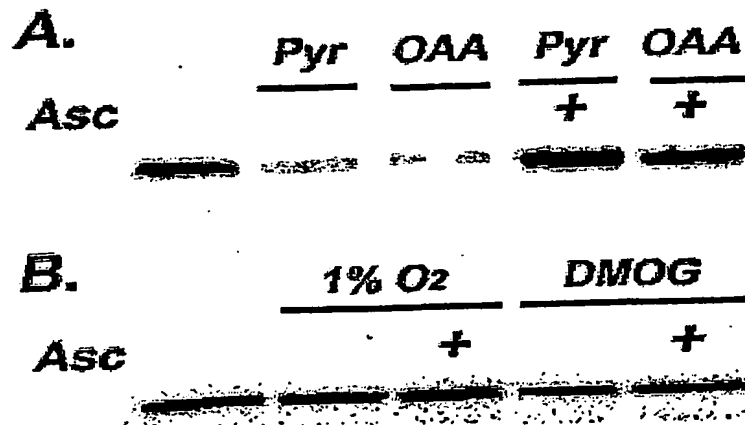


Figure 18

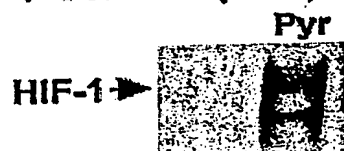
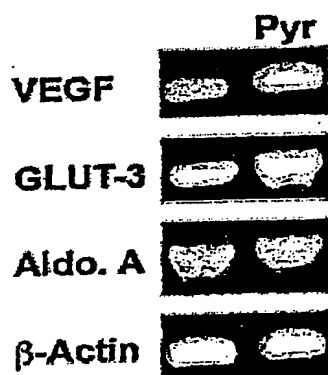
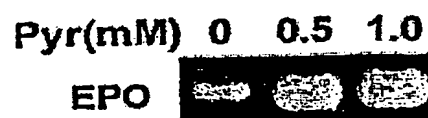
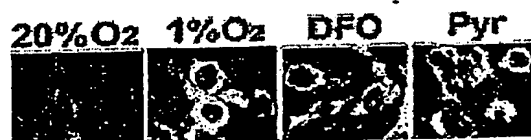
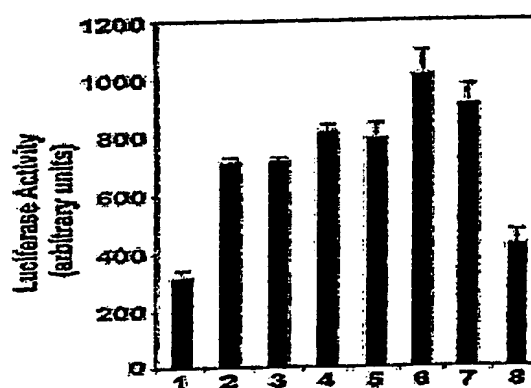
A. FIH-1 expression**B. HIF-1 Gelshift (U87)****C. RT-PCR (U87)****D. RT-PCR (Hep3B)****E. HRE-GFP Expression****F. HRE-Luciferase expression**

Figure 19

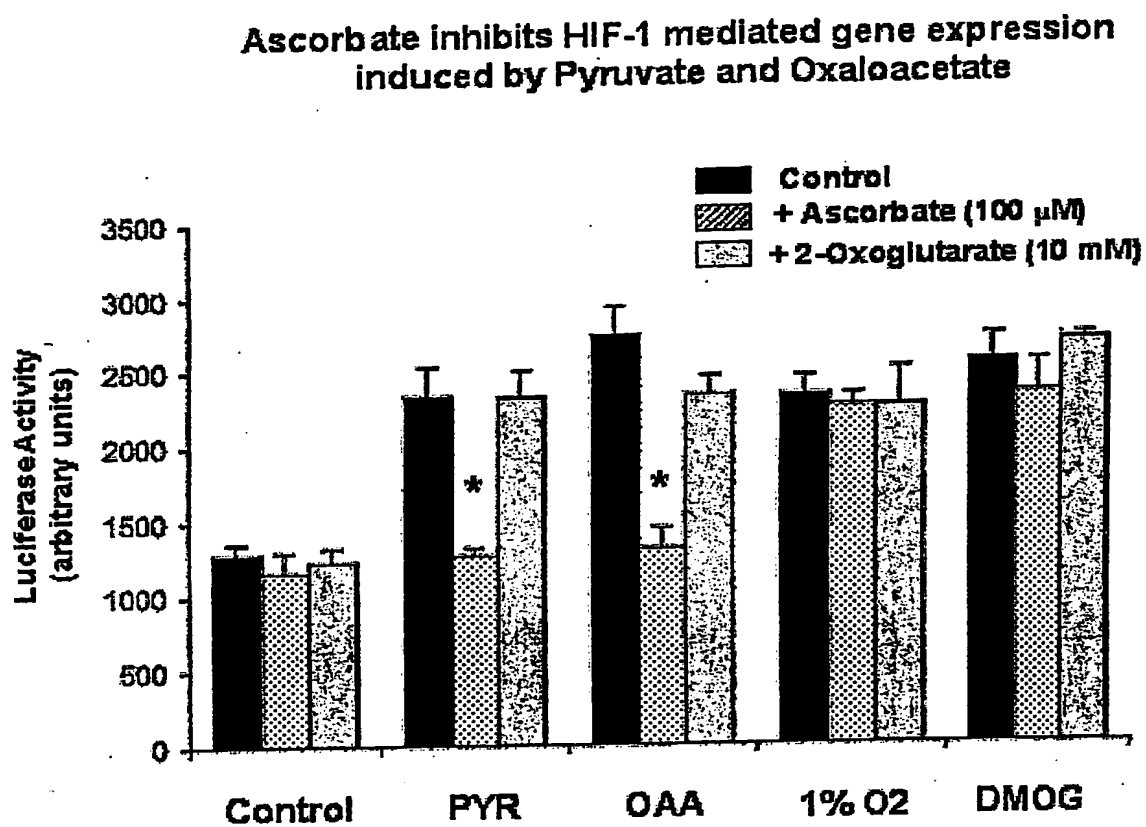


Figure 20

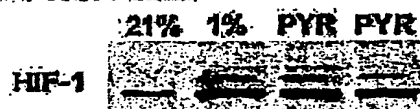
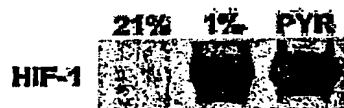
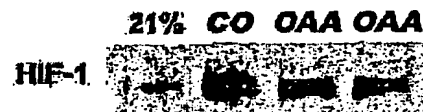
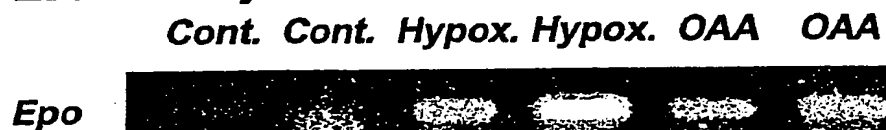
A. Primary Cortical Neurons**C. Rat Brain****B. Primary Rat Astrocytes****D. Rat Brain****E. Rat Kidney**

Figure 21

